

# STATE PROCUREMENT OFFICE

SPO Price List No. 96-47 (All Islands)

## MAINTENANCE OF WANG COMPUTER EQUIPMENT STATEWIDE (All Islands) (IFB-96-140-OHMKL)

March 1, 1996 to February 28, 1999

PURCHASE ORDERS shall be placed with the following vendor:

<u>VENDOR</u>	<u>VENDOR CODE</u>	<u>CONTACT/PHONE NO.</u>
WANG FEDERAL, INC. 3015 Koapaka Street Honolulu, HI 96819	249394-00	(808) 831-1620 (800) 374-1177

### UNIT PRICES

Unit Prices shown in this price list are based on delivery of services to designated agencies statewide and include all applicable costs and taxes except the 4% Hawaii General Excise Tax. Agencies are requested to add the 4% amount to their purchase order total. Vendors are aware that the tax to be charged shall not exceed the 4% rate (rounded to the nearest cent).

"SPO PL NO. 96-47" should be noted on purchase orders issued against this price list.

### PURCHASE ORDERS

Purchase orders should be mailed to the VENDOR at the address listed. Payment should be made per the vendor code provided.

Agencies may order and pay for maintenance services on a monthly basis, or may order and prepay monthly services in any amount not to exceed the total number of months remaining on the contract multiplied by the total unit Monthly Price for all items agency lists on the Purchase Order form.

### EXCEPTION TO PRICE LIST

Pursuant to Section 3-121-6 HAR, it is mandatory that all agencies of the Executive Branch purchase from price lists issued by the State Procurement Office. However, if the service level of maintenance provided herein is not suited to an agency's purpose, exception to purchase outside of the price list may be granted to such agency by the Chief Procurement Officer. To obtain an exception, agencies must submit SPO Form 5, Request for Authorization to Purchase Outside of the State Procurement Office Price List, justifying the exception.

### PROVISION OF MAINTENANCE SERVICE

The State reserves the right to provide maintenance service for any equipment through ICSD's self-maintenance program for end-user equipment, or any other self-maintenance program. The State reserves the right to provide no maintenance coverage for equipment.

The State may withdraw equipment from maintenance coverage provided under this contract upon thirty (30) days written notice to the contractor. The contractor shall immediately refund any prepaid maintenance fees to the applicable State agency. Upon withdrawal of maintenance for any equipment under this contract, all such equipment shall meet manufacturer's minimum requirements for maintenance acceptability at no additional cost to the State. All costs for certification will be borne by the contractor.

## GENERAL INFORMATION

Contractor shall furnish all labor, tools, equipment, parts, transportation, and supervision required for *preventive* and *on-call remedial* maintenance services described herein. Contractor shall maintain all equipment in accordance with manufacturer's guidelines, instructions, manuals, standards, and procedures.

The State may select periods of maintenance service for different equipment depending on individual agency needs:

1. **Base Period Maintenance Service:** 7:30 AM to 4:30 PM, Monday through Friday, except State-observed holidays. **Maintenance service that is performed outside of these days and times will be considered as Out-of-Scope maintenance service and Out-of-Scope maintenance service charges will apply (see Out-of-Scope Maintenance Service Charges section of this price list).**
2. **24 x 7 Maintenance Service:** twenty-four (24) hours a day, seven (7) days a week, including State-observed holidays.

## MAINTENANCE SERVICE REQUIREMENTS

Maintenance service shall consist of on-site *preventive maintenance* and *on-call remedial maintenance*. All maintenance service must be prompt and effective, and must be performed by engineers trained, experienced, and qualified to work on Wang Laboratories manufactured equipment.

The Contractor shall perform maintenance service that will keep the equipment in optimum operating condition and make repairs that will restore the equipment to working order. **All maintenance and repairs shall be in accordance with manufacturer's guidelines, instructions, manuals, standards, and procedures.** The Contractor will test and repair equipment at the State's installation site. Preventive maintenance shall be based on the specific needs of individual equipment and shall also include on-call remedial maintenance. Contractor shall furnish all labor, tools, equipment, parts, transportation and supervision required for maintenance service of equipment. Maintenance shall include lubrication, adjustments, and replacement of worn or malfunctioning parts, all as deemed necessary in accordance with manufacturer's guidelines, instructions, manuals, standards, and procedures.

Maintenance parts shall be only original manufacturer's parts, either new or equivalent to new in performance and function.

### Maintenance Reports

The Contractor shall furnish a *maintenance report* to the supervisor at the equipment installation site upon completion of each maintenance call. The report shall include the following:

1. Date and time Contractor was notified
2. Date and time of Contractor's personnel arrival
3. Type and model number(s) of equipment
4. Time spent for repair

5. Description of malfunction
6. List of parts replaced
7. Additional charges, if applicable (Contractor shall seek approval of the State agency personnel before commencing any work which will include an additional charge)
8. Date and time of turnover to State and signature of person accepting service performance for State
9. Signature of person performing repair/maintenance.

#### Hardware Service Reports

The Contractor shall furnish *hardware service reports* by site or account which show:

1. Downtime of equipment (due to preventive and/or on-call remedial maintenance) by equipment type
2. Problem trends by equipment type for the most recent six (6) months
3. Contractor response and repair times by equipment.

#### Safeguard Data

Due to the confidential and critical nature of much of the State's data, Contractor shall ensure appropriate safeguards are taken to protect the confidentiality of the State's data.

### **OUT-OF-SCOPE MAINTENANCE SERVICE CHARGES**

Maintenance service described herein that is performed outside of the Base maintenance service period shall be considered Out-of-Scope maintenance service and shall be performed at the hourly cost listed in the price schedule attached. Out-of-Scope maintenance service charges shall not apply to 24 x 7 maintenance service.

### **ADDITIONAL CHARGES**

There shall be no additional maintenance charges for the following:

1. Preventive maintenance during principal period of maintenance contract.
2. Time spent by maintenance personnel at the site awaiting the arrival of parts, etc.
3. Remedial maintenance occasioned by the recurrence of the same malfunction repaired in the preceding forty-eight (48) hour period.

### **RESPONSE AND REPAIR TIME**

Telephone acknowledgment of all requests for service shall be made within twenty (20) minutes from the time the service request is made. On-site response time shall be as follows:

1. Base Maintenance Service
  - a. Oahu: Two (2) hour on-site response time for service calls placed by 2:30 pm. For service calls placed after 2:30 pm, on-site response time shall be 8:00 am the next working day.

- b. Hawaii, Maui, and Kauai: Four (4) hour on-site response time for service calls placed before 12:00 noon. For service calls placed after 12:00 noon, on-site response time shall be 10:00 am the next working day.
- c. Molokai and Lanai: On-site response time shall be 10:00 am the next working day after service call is placed.

2. 24 x 7 Maintenance Service

- a. Oahu: Two (2) hour on-site response time after service call is placed.
- b. Hawaii, Maui, and Kauai: Four (4) hour on-site response time for service calls placed before 4:00 pm. For service calls placed after 4:00 pm, on-site response time shall be 10:00 am the next day.
- c. Molokai and Lanai: Four (4) hour on-site response time for service calls placed by 12:00 noon. For service calls placed after 12:00 noon, on-site response time shall be 10:00 am the next day.

Repair must be made within twelve (12) hours from time of on-site arrival or after ordered parts are received.

### **PARTS NON-AVAILABILITY**

In the event that a failing component, assembly, or part is not available from the local parts inventory, the Contractor will be required to ship the replacement component or part to Hawaii and deliver it to the State's site within twenty-four (24) hours after identification for replacement. In the event that equipment is inoperative, or Contractor estimates equipment to be inoperative, for more than twenty-four (24) hours due to equipment failure, the Contractor shall take one or more of the following actions at no additional cost to the State and subject to the State's approval:

- 1. Provide backup equipment
- 2. Provide on-site personnel for thorough analysis of the problem
- 3. Provide replacement for the failing equipment

When the system is operational but not fully functional, replacement of the failing component, assembly, or part must be at the State's site within twenty-four (24) hours of identifying the need for replacement or repair.

The State will be the sole judge in determining if the system is not operational, or is operational but not fully functional. In all cases, Contractor shall provide equipment in the manner described herein.

### **ENGINEERING CHANGES**

From time to time, the manufacturer makes technical equipment improvements to existing installed and operational Wang equipment at the State. These are accomplished through field engineering changes. These engineering changes are not only desirable but shall be critical when they are prerequisites to the addition of features to the Wang equipment and when they are required to be consistent with the equipment configuration and microcode levels. Therefore, the Contractor must track the requirement for and the installation activity of these engineering changes on each model type of Wang equipment. Services to perform engineering changes, including parts, labor, equipment, transportation, other related items, etc., shall be furnished by the Contractor. Prices quoted herein shall include the cost to provide the engineering changes work required by this IFB.

All manufacturer sponsored engineering changes to Wang equipment shall be accomplished by the Contractor and shall require State's approval prior to commencement of work. Engineering changes shall be approved on a case-by-case basis for each piece of equipment covered under this maintenance contract.

The Contractor shall notify the State of any engineering changes within 30 days of manufacturer's release date. Such engineering changes shall be completed within 60 days after State's approval to implement the change.

### **HIERARCHY OF SUPPORT FOR ON-SITE REPAIR**

When equipment fails or becomes inoperative, maintenance service will be provided as follows: After Contractor's initial service personnel arrive at the State's installation to respond to a remedial maintenance call and the equipment malfunction has not been diagnosed and repair initiated within two (2) hours of the time of arrival of the service personnel, the Contractor will dispatch for second level technical support. In the event that four (4) additional hours elapse from the time of response at the second level of technical support and the equipment malfunction has not been diagnosed and repair initiated the Contractor will dispatch for third level technical support.

### **RE-EXECUTION OF WORK**

Contractor shall re-execute any work that fails to conform to the requirements of this contract and shall immediately remedy any defects due to faulty workmanship by the Contractor.

### **INCORRECT DIAGNOSIS**

In the event an equipment malfunction occurs and the Contractor's maintenance personnel determine that it is not an equipment problem and another vendor's maintenance personnel are called, and if the final determination is that the malfunction was, in fact, in or caused by the equipment, then the Contractor will provide a written report to the State outlining the circumstances of the incorrect diagnosis. Contractor shall reimburse the State for any additional maintenance service expenses incurred as a result of the incorrect diagnosis.

### **REMEDIES**

If Contractor is unable to restore failing equipment, or equipment's replacement, to good working order (as specified by the manufacturer) within three (3) efforts within a seven (7) day period, the State may recover liquidated damages as specified herein.

### **LIQUIDATED DAMAGES**

For Base Period Maintenance Service, liquidated damages are fixed at the sum of ONE HUNDRED DOLLARS (\$100.00) for each and every work day the Contractor delays in the completion of any item of its contract after the required date of said completion.

For 24 x 7 Maintenance Service, liquidated damages are fixed at the sum of TWO HUNDRED DOLLARS (\$200.00) for each and every work day the Contractor delays in the completion of any item of its contract after the required date of said completion.

### **EQUIPMENT INVENTORY**

Agencies will inventory and compile a register of all equipment to be maintained. Such register of equipment shall be used in preparing the initial purchase order when agencies elect to receive maintenance service.

### **WORK EXCLUDED FROM THIS CONTRACT**

1. Furnishing supplies, painting or refinishing the equipment, and providing material thereof.
2. Electrical work external to the equipment or installation, maintenance or removal of alterations, attachments or other devices not furnished or recommended by the manufacturer or Contractor.
3. Repair of equipment including replacement of damaged components, assemblies, and/or parts, when damage is due to accidents caused by misuse, neglect or malicious intent; disasters such as flooding, earthquake, and other acts of God; and other damages resulting from shipment/transportation of equipment, components, assemblies, and/or parts, where the carrier or supplier is determined to be responsible for repair of damages.
4. Service to equipment not listed herein and accessories/attachments not supported by Wang.

5. Rearrangement or relocation of equipment.
6. Such service which is impractical for the Contractor to render because of alterations in or attachments to the equipment.

#### **PAYMENT**

Section 103-10, HRS, provides that the State shall have thirty (30) calendar days after receipt of invoice or satisfactory completion of contract to make payment. The State will not recognize any requirement established by the Contractor and communicated to the State after award of the contract which requires payment within a shorter period or interest payment not in conformance with statute.

#### **MAINTENANCE SERVICE CALLS**

Maintenance service calls should be made to the vendor at (808) 831-1620 or 1-800-374-1177.

#### **INQUIRIES**

Questions may be directed to Mr. Grant Turner of the State Procurement Office at telephone (808) 586-0565.

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ROBERT J. GOVERNS, CPPB  
Procurement Officer

ITEM NO.	MACHINE TYPE & MODEL DESCRIPTION	BASE PERIOD MONTHLY PRICE(\$)	24X7 MONTHLY PRICE (\$)
1.	2110A		
	ASYNCHRONOUS TERMINAL	1.65	1.66
2.	2209V		
	9TRK MAG TAPE DRIVE, 1600BPI, 75IPS	39.55	39.95
3.	2219V-3		
	TRIDENSITY TAPE SUBSYS.(800/1600/6250)	87.83	226.24
4.	2238V-1		
	1/4" STREAM CARTRIDGE TAPE DRV (45/60MB)	5.77	5.83
5.	2246C		
	COMBINED WP/DP 32K VS WORKSTATION	2.25	2.27
6.	2246S-2B		
	32K SERIAL VS WORKSTATION	2.25	2.27
7.	2246S1		
	2246S WORKSTATION W/029 KEYBOARD	12.36	12.48
8.	2247V-4		
	4 PORT MODEM SHARING UNIT	1.95	1.97
9.	2248V-1		
	TRI-DENSITY MASTER TAPE DRIVE (87MB)	74.16	74.90
10.	2249V-2		
	SCSI CARTRIDGE SUBSYSTEM TAPE UNIT	61.25	61.86
11.	2256C		
	COMBINED WP/DP 64K VS WORKSTATION	11.54	11.65
12.	2256C-4R		
	FOUR PACK OF 2256CR WS	2.10	2.12
13.	2256CR		
	REFURBISHED 2256C COMBINED TERMINAL	11.54	23.30
14.	2259V-2M		
	2GB CARTRIDGE TAPE BACKUP UTIL	41.20	41.61

ITEM NO.	MACHINE TYPE & MODEL DESCRIPTION	BASE PERIOD MONTHLY PRICE(\$)	24X7 MONTHLY PRICE (\$)
15.	2259V-2M-9		
	2.3GB UNATTENDED BACKUP UTIL W/5.25" DSK	41.20	41.61
16.	2265V-2		
	288MB REMOVABLE DISK DRIVE	92.29	93.21
17.	2266C		
	2266C CRT COMBINATION KEYBOARD/TERMINAL	24.72	24.97
18.	2267V-1		
	75MB REMOVABLE DISK FOR LG 4-SLOT CABINET	38.73	39.12
19.	2268V-2		
	147MB FIXED DISK FOR SMALL/LARGE CABINET	31.31	38.38
20.	2268V-3		
	314MB FIXED DISK FOR LG 4-SLOT CABINET	29.66	36.36
21.	2268V-3D		
	314MB FIXED DISK FOR DSC-0 8-SLOT CABINET	33.78	41.41
22.	2268V-4		
	452MB FIXED DISK FOR LG 4-SLOT CABINET	38.73	47.47
23.	2268V-4R		
	REMAN. 452MB FIXED DISK FOR LG CABINET	44.50	54.54
24.	2268V-6D		
	1GB FIXED DISK FOR DSC-0 8-SLOT CABINET	23.90	29.29
25.	2269V-4		
	147MB SCSI DISK DRIVE	3.75	3.79
26.	2269V-4A		
	147MB SCSI DISK DRIVE	3.75	3.79
27.	2269V-5		
	320MB,5.25" WINCHESTER DISK DRIVE	10.71	10.82
28.	2269V-6F-SE		
	650MB SCSI DISK DRIVE	21.00	21.21



ITEM NO.	MACHINE TYPE & MODEL DESCRIPTION	BASE PERIOD MONTHLY PRICE(\$)	24X7 MONTHLY PRICE (\$)
29.	2269V-7F-SE		
	1370MB SCSI DISK DRIVE	40.00	40.40
30.	2276C-3		
	64K VS ARCHIVING WKSTN, HS/SS CTLR.	25.54	25.80
31.	2278V-7		
	470MB OPTICAL DRIVE	13.65	13.79
32.	2278V-J7		
	JUKEBOX W/(2) 470MB OPTICAL DISK	147.00	148.47
33.	2293V-C1		
	SMALL DATA STORAGE CABINET W/76MB (1) REM D	38.73	39.12
34.	2293V-C3		
	LG DATA STORAGE CABINET W/76MB (1) REM DR	58.50	59.09
35.	2295V-C3		
	SM DATA STRG CAB W/1-223MB FX/1-76MB REM DR	7.50	7.58
36.	2295V-C5		
	LG DATA STRG CAB W/1-452MB FX/1-452MB REM D	7.80	7.88
37.	2295V-C6		
	LG DATA STRG CAB W/1-314MB FX/1-76MB REM DR	63.45	64.08
38.	2295V-C7		
	LG DATA STRG CAB W/2-314 MB FXD.	61.80	62.42
39.	2295V-CO		
	LG DATA STRG CAB W/O DRIVE	4.12	4.16
40.	22V25-2		
	MAG. TAPE IOP FOR VS85/100 FOR 2209 DRIVES	6.59	6.66
41.	22V26-3		
	3 PORT COMMUNICATIONS IOP VS85/100	24.72	24.97
42.	22V27-1		
	VS-85/90/100 IOP FOR SERIAL DEVICES	8.24	8.32

ITEM NO.	MACHINE TYPE & MODEL DESCRIPTION	BASE PERIOD MONTHLY PRICE(\$)	24X7 MONTHLY PRICE (\$)
43.	22V27-2		
	16 PORT SERIAL IOP VS85/100	10.71	10.82
44.	22V28		
	IOP FOR 90/75/288MB DISK	20.60	20.81
45.	22V67W		
	VS-85/90/100 IOP FOR WANGNET ATTACHMENT	18.95	19.14
46.	22V88-4		
	4 PORT DISK IOP FOR VS85/100	32.96	33.29
47.	23V-HSWACS-32		
	32 PORT HIGH SPEED EXT. WACS FOR VS	23.90	24.13
48.	23V66		
	LAN CONTROLLER; VS7000 SERIES	5.77	5.83
49.	23V67		
	32 PORT SERIAL DEVICE CONTROLLER-VS7000 SER	11.54	11.65
50.	23V95-1		
	1600BPI TAPE IOC: VS7100/7300/10000	11.54	11.65
51.	23V95-2		
	6250BPI TAPE IOC: VS7100/7300/10000	15.66	15.81
52.	23V96-16A		
	16-PORT CONTROLLER FOR VS7100/7300	55.21	55.76
53.	23V97		
	VS300 32-PORT SERIAL IOC	26.37	26.83
54.	23V97W		
	UNIVERSAL SERIAL IOC	4.80	4.85
55.	23V98-4		
	4-PORT DISK IOC: VS7100/7300	32.14	32.46
56.	2509V		
	9-TRACK,1600BPI TAPE DRIVE (VS)	47.79	48.27

ITEM NO.	MACHINE TYPE & MODEL DESCRIPTION	BASE PERIOD MONTHLY PRICE(\$)	24X7 MONTHLY PRICE (\$)
57.	2529V		
	4-TRACK EXTERNAL CARTRIDGE,15MB	3.75	3.79
58.	25V36AE		
	8 PORT CONTROLLER-VS5/5E/6/6E/65/75E	4.12	4.16
59.	25V50-2		
	2-PORT DISK CTRL (VS45)	4.35	4.39
60.	25V50-2A		
	2-PORT DISK CTRL (VS65,VS75E)	16.48	16.64
61.	25V50-2B		
	2-PORT DISK DEV. CTRL	3.00	3.03
62.	25V50-4		
	4-PORT DISK DEV. CTRL (VS45)	34.61	34.95
63.	25V50-4A		
	4-PORT DISK DEV. CTRL	27.19	27.46
64.	25V66		
	802.3 LAN CONTROLLER(VS5/5E/6/6E)	4.94	4.99
65.	25V67		
	32-PORT SER CTRL W/O CBL/APAS FOR (VS)	10.71	10.82
66.	25V76-2		
	2-PORT COMMUNICATION CONTROLLER(VS25/45)	7.42	7.49
67.	25V76-2A		
	2-PORT COMMUNICATION CONTROLLER VS15/65/75E	7.42	7.49
68.	25V76-2B		
	2-PORT COMMUNICATION CONTROLLER(VS5/6)	7.42	7.49
69.	25V98-4		
	4-PORT HIGH SPEED DISK IO CONTROLLER	9.45	9.54
70.	2866C-4		
	ERG. WP/DP 64K VS WORKSTATION	4.95	5.00

ITEM NO.	MACHINE TYPE & MODEL DESCRIPTION	BASE PERIOD MONTHLY PRICE(\$)	24X7 MONTHLY PRICE (\$)
71.	3C503		
	ETHERLINK II	0.30	0.30
72.	4210-VS		
	32KB VS DP/WP/GRAPHIC WORKSTATION	7.42	7.49
73.	4230-VS		
	64K VS DP/WP WORKSTATION W/KEYBOARD	8.24	8.32
74.	4230A-OA		
	64K WORKSTATION WITH KEYBOARD AND BASE	0.75	0.76
75.	4230A-VS		
	64K DP/WP WORKSTATION W/KEYBOARD	3.30	3.33
76.	4230A-VX		
	64K DP/WP WORKSTATION W/KEYBOARD	0.60	0.61
77.	4230B		
	64K SERIAL DP/WP WORKSTATION W/O KEYBOARD	4.12	4.16
78.	4230EP		
	4230 ELECTRONICS PACKAGE	8.24	8.32
79.	4430-VS		
	64K SERIAL DP/WP WORKSTATION MONOCHROME	1.65	1.66
80.	4450		
	VS/MSDOS WORKSTATION ON NORTHERN	3.30	3.33
81.	50V-APA24-6		
	24-PORT ADD-ON PANEL TO 50V67 DOMES	0.00	0.00
82.	50V24		
	WIIS IMAGE TRANSFER CONTROLLER	11.90	12.02
83.	50V67		
	32-PORT SERIAL CONTROLLER W/8-PORTS	4.12	4.16
84.	50V68		
	1 PORT SCSI CONTROLLER	10.85	10.96

ITEM NO.	MACHINE TYPE & MODEL DESCRIPTION	BASE PERIOD MONTHLY PRICE(\$)	24X7 MONTHLY PRICE (\$)
85.	50V76-1A		
	1 PORT TC CONTROLLER	6.00	6.06
86.	50V98		
	4-PORT SMD. DISK CTL. VS5000	24.85	25.10
87.	50V98-4		
	4-PORT SMD. CONTROLLER	24.85	25.10
88.	5300/VS-IIS64		
	64K COMBINED WORKSTATION/ELECTRONICS PACKAG	1.20	1.21
89.	5320		
	GREEN DISPLAY	9.06	9.15
90.	53S40V-4B		
	5440 4MB CPU/5-SLOT CHS/145MB VS/OS	15.66	15.81
91.	53S50V-4B		
	VS5450 4MB CPU 145 MB DISK	32.14	32.46
92.	5505-3		
	WP SYSTEM 5 MOD-3 MASTER, DUAL DISK DRV	3.15	3.18
93.	5506-2		
	WORKSTATION	3.45	3.48
94.	5535-1R *		
	REMAN. 180CPS BI-DIRECTIONAL MATRIX PRINTER	4.35	4.39
95.	5536-1		
	16KB CRT/KEYBOARD WORKSTATION (WPS)	2.10	2.12
96.	5536-3		
	48KB CRT/KEYBOARD WORKSTATION (OIS)	11.54	11.65
97.	5536-3T		
	TC-5536-3 48K WORKSTATION WITH TC	12.36	24.97
98.	5536-4		
	64KB CRT/KEYBOARD WORKSTATION	11.54	23.30

ITEM NO.	MACHINE TYPE & MODEL DESCRIPTION	BASE PERIOD MONTHLY PRICE(\$)	24X7 MONTHLY PRICE (\$)
99.	5536-4R		
	REMAN 64KB CRT/KEYBOARD 5536-4 WORKSTATION	11.54	23.30
100.	5541W *		
	35 CPS DAISY WHEEL PRINTER	3.45	3.48
101.	5573 *		
	250 LPM BAND PRINTER (DP ONLY)	38.73	39.12
102.	5574 *		
	600 LPM BAND PRINTER W/I UTILITY	60.15	60.75
103.	5574-1 *		
	600 LPM BAND PRINTER (64KB)	49.44	49.93
104.	5577 *		
	192/40 CPS HI-DENSITY MATRIX PRINTER	23.90	24.13
105.	5577R *		
	REMANF. 150/40 CPS HI-DEN MATRIX PRINTER	23.90	24.13
106.	5577V *		
	192/40 CPS VERY HI-DEN MATRIX PRINTER	23.90	24.13
107.	5577VR *		
	REMANF 192/40 CPS HI-DEN MATRIX PRINTER	4.35	4.39
108.	5578 *		
	MULTI-FUNCTION MATRIX PRINTER FOR VS/OIS	1.95	1.97
109.	5938		
	ERGO II 64KB PROP. SPACE WS WITH STAND	20.60	20.81
110.	6120-16		
	VS6000/120 CPU W/16MB MEMORY	41.00	41.41
111.	6509		
	9-TRACK,1600BPI TAPE DRIVE AND CONTROLLER	55.21	55.76
112.	6510C		
	VS6000 CABINET	0.00	0.00

ITEM NO.	MACHINE TYPE & MODEL DESCRIPTION	BASE PERIOD MONTHLY PRICE(\$)	24X7 MONTHLY PRICE (\$)
113.	6515-2		
	115-2, 8.4MB DISK & DISKETTE	57.68	72.82
114.	6529		
	1/4" ARCHIVING CARTRIDGE TAPE DRIVE	16.45	16.61
115.	6554-2A		
	EXTERNAL TC PROCESSOR	3.75	3.79
116.	6554-3		
	DATA COMM. PROCESSOR (TCP)	20.60	25.25
117.	6554-4		
	DATA COMM. PROCESSOR (TCP)	20.60	25.25
118.	6581W *		
	35CPS DAISY PRINTER	26.37	26.63
119.	7010-16-CAB		
	VS7010 CABINET W/16MB MEMORY	143.38	144.81
120.	7010-8-CAB		
	VS7010 CABINET W/8MB MEMORY	110.42	111.52
121.	7030-16R		
	VS7030 SYSTEM	143.38	144.81
122.	70V68-1		
	1-PORT CACHING SCI IOC	55.21	55.76
123.	70V68-2		
	2-PORT CACHING SCI IOC	65.92	66.58
124.	70V98-4		
	4-PORT ESMD DISK IOC VS7100/7300	36.26	36.62
125.	70V98-4A		
	4-PORT ESMD DISK IOC VS7010	6.60	6.67
126.	70V98E-4		
	CACHING IOC	6.60	6.67

ITEM NO.	MACHINE TYPE & MODEL DESCRIPTION	BASE PERIOD MONTHLY PRICE(\$)	24X7 MONTHLY PRICE (\$)
127.	7120-8-CAB		
	VS7120-CABINET W/8MB MEMORY	234.84	237.19
128.	7150-4L		
	VS7150 W/4 MB MEMORY	329.60	332.90
129.	725-3234		
	POWER CONDITIONER - VS	3.00	3.03
130.	7380A		
	VS7380A SYSTEM	147.04	378.75
131.	7XSCU		
	7000 SERIES EXTERNAL SYSTEM	4.12	5.05
132.	8023-10/PC2		
	3C501 ETHERNET CARD	0.75	0.76
133.	8023-10/VS		
	802.3-10 MBPS INTEFACE CARD VIA MLTC	4.12	4.16
134.	8023-ADPTR		
	802.3 ADAPTER	9.89	12.12
135.	8220-8		
	VS8220 W/8MB MEMORY	84.05	84.89
136.	8420-8		
	VS8420 WITH 8MB MEMORY	148.32	149.80
137.	8420-16		
	VS8420 WITH 16MB MEMORY	51.60	52.12
138.	8460		
	VS8460	169.75	171.45
139.	8700-LCOMUX		
	LOCAL COMMUNICATIONS/MULTIPLEXOR B	0.00	0.00
140.	AWS-1		
	48KB ARCHIVING WORKSTATION W/STAND	3.30	3.33



ITEM NO.	MACHINE TYPE & MODEL DESCRIPTION	BASE PERIOD MONTHLY PRICE(\$)	24X7 MONTHLY PRICE (\$)
141.	AWS-4		
	64KB ARCHIVING WORKSTATION W/STAND	3.30	3.33
142.	BFT-1 *		
	BI-DIRECTIONAL FORMS TRACTOR:2281/5541W	0.00	0.00
143.	BFT-55 *		
	BI-DIR FORMS TRACTOR:PC&WOA/PM014,75PC-P	0.00	0.00
144.	BL-EXT106		
	60MB EXTERNAL TAPE	0.75	0.76
145.	C/2269V-6F-SE		
	CONFIGURED 650MB FH SCSI DISK (IN MDSC)	21.00	21.21
146.	C/2269V-7F-SE		
	CONFIGURED 1370MB FH SCSI DISK (IN MDSC)	33.00	33.33
147.	C/6MEM-16		
	CONFIGURED 16MB MEMORY	27.00	27.27
148.	CMUX-3270		
	IBM-3270 CABLE MULTIPLEXOR, 8-PORT	12.36	12.48
149.	DM50/300 *		
	9 PIN MULTIFUNCTIONAL DOT-MATRIX PRINTER	4.94	4.99
150.	DSC-0		
	8-POSITION DATA STORAGE CABINET	4.12	4.16
151.	DSF-55 *		
	DUAL BIN FEEDER FOR DW/OS 55	9.06	9.15
152.	DSF-60 *		
	DUAL SHEET FEEDER W/ENVELOPE FOR DW/OS-55	4.12	4.16
153.	DSF-77 *		
	DUAL SHEET FEEDER FOR 5577	0.00	0.00
154.	DSF-LDP8 *		
	DUAL SHEET AND ENVELOPE FEEDER FOR LDP-8	9.06	9.15

ITEM NO.	MACHINE TYPE & MODEL DESCRIPTION	BASE PERIOD MONTHLY PRICE(\$)	24X7 MONTHLY PRICE (\$)
155.	DW/OS-20 *		
	20 CPS, BIDIRECTIONAL DAISY PRINTER	16.48	16.64
156.	DW/OS-55 *		
	55 CPS DAISY PRINTER (OIS/VS)	20.60	20.81
157.	DW/OS-60 *		
	60 CPS DAISY PRINTER	9.89	9.99
158.	FASTLAN-A		
	FASTLAN AMPLIFIER UNIT-PVC	7.42	9.09
159.	FFM64000		
	FIXED FREQ. MODEM, 64KBPS	4.94	6.06
160.	FFM9600		
	FIXED FREQ. MODEM, 9.6KBPS	3.30	4.04
161.	FO-MDM-MUX		
	FIBER OPTICS MULTIPLEXER	16.80	16.97
162.	FT-40M *		
	FORMS TRACTOR FOR PM060 AND 5578 MATR	1.65	1.66
163.	FWII-RCS-16S		
	FIBERWAY II REMOTE CLUSTER	7.42	7.49
164.	FWII-SYS-4S		
	FIBERWAY II ACTIVE PORT ASSEMBLY	2.47	2.50
165.	HSWACS-16		
	16 PORT HIGH SPEED EXT WACS	7.42	9.09
166.	HSWACS-16-INBA		
	16 PORT HIGH SPEED INT. WACS	4.55	4.60
167.	L-10		
	10 KVA UNINTERRUPTIBLE POWER SUPPLY	42.85	43.28
168.	L-318-A		
	18.75 KVA U.P.S. 120/208V	50.26	50.77

ITEM NO.	MACHINE TYPE & MODEL DESCRIPTION	BASE PERIOD MONTHLY PRICE(\$)	24X7 MONTHLY PRICE (\$)
169.	L-318-BAT		
	18.75 KVA UPS BATTERY CABINET	59.33	59.92
170.	L-5		
	5 KVA UPS, 60HZ	36.26	36.62
171.	LCS15 *		
	LASER COMPOSITION SYSTEM 15PPM	41.20	41.61
172.	LCS15-CMB *		
	15PPM LASER PRINTER FOR OIS, VS & DP	41.20	41.61
173.	LCS15-DSK *		
	LCS15 PRINTER AND RS232/CENTRONICS	41.20	41.61
174.	LCS15-IK-CB *		
	LCS15 CMB INTERFACE KIT	9.06	9.15
175.	LDP17-SYS *		
	17 PPM LASER PRINTER	17.50	17.68
176.	LDP4 *		
	LASER PRT SYS-4PPM	5.25	5.30
177.	LDP4III *		
	LASER PRT SYS-4PPM	5.25	5.30
178.	LDP4P *		
	LASER PRT SYS-4PPM	5.25	5.30
179.	LDP8 *		
	8PPM DESKTOP LASER PRINTER	32.96	33.29
180.	LDP8-IK-OS *		
	INTERFACE KIT FOR LDP8-SYS	10.71	10.82
181.	LDP8-SYS *		
	8 PPM LASER PRINTER W/OS ACCESS	32.96	33.29
182.	LIS-12 *		
	LASER IMAGING SYS-12PPM	108.77	109.86

ITEM NO.	MACHINE TYPE & MODEL DESCRIPTION	BASE PERIOD MONTHLY PRICE(\$)	24X7 MONTHLY PRICE (\$)
183.	LIS-24-INTF *		
	LIS-24 INTERFACE	145.02	146.47
184.	LM400 *		
	400 LPM SHUTTLE MATRIX PRINTER	6.00	6.06
185.	LM700 *		
	700 LPM SHUTTLE MATRIX PRINTER	7.80	7.88
186.	LM900 *		
	900 LPM SHUTTLE MATRIX PRINTER	45.85	46.31
187.	LPS-12 *		
	LASER PRT. SYS.-12PPM	98.88	99.87
188.	LPS-12 INTERFACE *		
	LPS-12 INTERFACE	114.54	115.68
189.	LPS8 *		
	LASER PRINTING SYSTEM-8PPM	8.24	16.64
190.	LPS8-V *		
	8PPM LASER PRINTING SYSTEM FOR ALL VS	1.50	1.52
191.	LPS8R *		
	REMAN LASER PRINTING SYSTEM 8PPM	8.24	8.32
192.	M-2036C-1		
	3.6KVA UPS 120/120	17.50	17.68
193.	MDSC-D		
	MINI DATA STORAGE CABINET	6.00	6.06
194.	NETMUX		
	8 PORT MULTIPLEXER	4.12	5.05
195.	NETMUX-19		
	19 CHAN. 8-PT MULTIPLEXOR	4.12	5.05
196.	NETMUX-28		
	28 CHAN. 8-PT MULTIPLEXOR	4.12	5.05

ITEM NO.	MACHINE TYPE & MODEL DESCRIPTION	BASE PERIOD MONTHLY PRICE(\$)	24X7 MONTHLY PRICE (\$)
197.	OIS-50		
	OIS-50,10MB DISK,5.25" DSKT.	9.00	9.09
198.	OIS-50R		
	OIS-50 MASTER,10MB FXD, 5.25" DSKT	29.66	29.96
199.	OIS-IWS		
	64KB INT. WKSTA W/BASE,KEYBOARD	2.40	2.42
200.	PC280-SCU		
	VS SCU including MON-1240 DISPLAY	0.00	0.00
201.	PFG48		
	GENERATOR,WANG,PILOT-48MHZ	1.65	2.02
202.	PFG912		
	GENERATOR,WANG,PILOT-9.12MHZ	4.12	5.05
203.	PIB10-64		
	PRINTER INTERFACE	0.45	0.45
204.	PIB10-64HS		
	HIGH SPEED PRINTER INTERFACE	1.75	1.77
205.	PM004B **		
	CLASS B MONOCHROME MONITOR	1.65	1.66
206.	PM004L **		
	MONOCHROME MONITOR(NEW SLIDER)	1.65	1.66
207.	SIM-8		
	8-PORT MODEM FOR ASYNC	0.00	0.00
208.	SIM-ADMIN		
	SHARED INTERCON. MODEM NETWORK	24.72	24.97
209.	SIM-XLTR		
	TRANSLATOR	0.00	0.00
210.	SP9143		
	INTERFACE UPS TO VS	1.75	1.77

ITEM NO.	MACHINE TYPE & MODEL DESCRIPTION	BASE PERIOD MONTHLY PRICE(\$)	24X7 MONTHLY PRICE (\$)
211.	SSF-60 *		
	SHEET FEEDER	0.75	0.76
212.	SSM-C		
	SCSI STORAGE MODULE W/O DRIVE	0.45	0.45
213.	SSM-C1		
	SCSI STORAGE MODULE FOR TAPE DR	0.75	0.76
214.	TBF-LDP8 *		
	BIN FEEDER (LDP8)	13.18	13.32
215.	TP-APA		
	8-PORT ACTIVE PORT ASSEMBLY (TWISTED PAIR)	4.12	4.16
216.	TP-NETMUX		
	TWISTED PAIR MUX, 32 PORT	20.60	25.25
217.	TSF-31 *		
	TWIN SHEET FEEDER(6581W)	1.80	1.82
218.	TSF-31R *		
	TWIN SHEET FEEDER(6581W-1R)	1.80	1.82
219.	TSF-61 *		
	TWIN SHEET FEEDER	0.75	0.76
220.	VS-256G		
	VS100 CPU 8MB MEMORY	421.06	425.27
221.	VS-6550A		
	6550A SINGLE LINE TC PROCESSOR	7.42	7.49
222.	VS-6554		
	EXTERNAL CHASSIS (VS)	3.45	3.48
223.	VS-CC		
	VS85/90/100/300 CABLE CONCENTRATOR	0.00	0.00
224.	VS-CC-CBT		
	CABLE CONCENTRATOR, OFFICE STYLE	0.00	0.00

ITEM NO.	MACHINE TYPE & MODEL DESCRIPTION	BASE PERIOD MONTHLY PRICE(\$)	24X7 MONTHLY PRICE (\$)
225.	VS-PA-8B		
	8 PORT SERIAL EAPA	2.47	2.50
226.	VS-PA-8C		
	APA FOR UP TO 8 SERIAL PORTS	3.30	3.33
227.	VS-PM017 *		
	400 CPS MATRIX PRINTER (RS232)	10.71	10.82
228.	VS-SCU-PC2		
	SYSTEM CONTROL UNIT	0.00	0.00
229.	VS-SM-CC		
	SMALL CABLE CONCENTRATOR FOR VS	0.00	0.00
230.	VS-TC1		
	128K COMMUNICATIONS CTLR	10.71	10.82
231.	VS-UPS-IF-1-H		
	VS SYSTEM WATCH 2-6 KVA	5.25	5.30
232.	VS-WN-19B		
	PERIPHERAL BAND MODEM OPTION FOR VS	1.65	1.66
233.	VS-WN-28B		
	P-BAND 28 CHANNEL OPT.(VS7000)	1.65	1.66
234.	VS15-32AN		
	VS15, 2MB MEM,76MB DISK	27.90	28.18
235.	VS6-2BM		
	VS6, 2MB MEM,(2) 67MB DISK	50.26	50.77
236.	VS65-1AN		
	VS65,1MB MEM,76MB DISK	11.85	11.97
237.	VS65-2BN		
	VS65,2MB MEM,147MB DISK	11.85	11.97
238.	VS65-4BN		
	VS65,4MB MEM,147MB DISK	78.28	79.06

ITEM NO.	MACHINE TYPE & MODEL DESCRIPTION	BASE PERIOD MONTHLY PRICE(\$)	24X7 MONTHLY PRICE (\$)
239.	VS65-4X		
	VS65,4MB MEM,NO DISK	11.40	11.51
240.	VS75E-2DM		
	VS75E,2MB MEM,(1) 145MB DISK	10.35	10.45
241.	VS75E-4DM		
	VS75E,4MB MEM,(1) 145MB DISK	61.80	62.42
242.	VS75E-8DM		
	VS75E,8MB MEM,(1) 145MB DISK	71.69	72.40
243.	VS8460		
	VS CPU 12	169.75	171.45
244.	VS85-4		
	4096K MAIN MEM	168.92	170.61
245.	VS85-8C-CPU		
	VS85, 8MB MAIN MEM, 32KB DISK	58.05	58.63
246.	WA3451		
	300/1200 BPS SYNC/ASYNCR MODEM	4.12	4.16
247.	WACS-1		
	SINGLE PORT WACS	1.65	1.66
248.	WACS-16		
	16 PORT CLUSTER:VS CPU'S	7.42	7.49
249.	WANGNET		
	WANGNET--ALL COMPONENTS DIR CONN TO WANGNET	548.95	1,414.00
250.	WIIS-2278V-1J		
	1 GB OPTICAL RMVBL DRV. JUKE BOX	37.08	45.45
251.	WIIS-2278V-J0		
	JUKE BOX FOR OPTICAL DRIVES	284.28	348.45
252.	WIIS-2278V-J2		
	OPTICAL DISK JUKEBOX (2) 1GB DRV	280.16	343.40



ITEM NO.	MACHINE TYPE & MODEL DESCRIPTION	BASE PERIOD MONTHLY PRICE(\$)	24X7 MONTHLY PRICE (\$)
253.	WIIS-CTRL-1640		
	FULL PAGE MONITOR CONTROLLER	5.93	5.99
254.	WIIS-INPUT-02		
	DOCUMENT SCANNER SC4000	27.19	27.46
255.	WIIS-INPUT-04		
	AUTO SHEET FEEDER SC4000	7.42	7.49
256.	WIIS-INPUT-06		
	CONTROLLER FOR SC4000	8.24	8.32
257.	WIIS-IOC-300		
	23V24 ITC IOC(VS300 & VS7000)	15.66	19.19
258.	WIIS-ITC-01		
	IMAGE TRANSFER CTLR. BASE	32.14	39.39
259.	WIIS-ITC-05		
	ITC I/F FOR JUKEBOX(1:1) & CAB	3.30	4.04
260.	WOA-40		
	512K CPU W/O PRINTER	9.89	9.99
261.	WTM-2400		
	WANG TELEMODEM 2400BPS	0.00	0.00
262.	WTM-2400-R		
	WANG TELEMODEM	0.00	0.00
263.	WTM-2400-RM		
	WANG TELEMODEM	0.00	0.00
264.	OUT-OF-SCOPE MAINTENANCE HRLY. CHARGE	50.00	N/A

NOTE \*: Wang printer models and related devices listed in this Price List shall be eligible to receive maintenance services described herein only when the printer is connected directly to a Wang VS or OIS systems or have Wangnet connection to a Wang VS system. Wang printer models connected to any standalone personal computer, personal computer LAN, or to any personal computer or related device with a WLOC board or 3270 emulation card are excluded from this maintenance service contract.

NOTE \*\*: Wang display and/or personal computer models listed in this Price List shall be eligible to receive maintenance services described herein only when the monitor is connected to a Wang VS workstation or the personal computer and/or monitor perform the functions of a Wang VS System Control Unit. Wang monitor models connected to any standalone personal computer or to any personal computer that is not classified as a Wang VS System Control Unit are excluded from this maintenance service contract. Personal computer models that are not classified as a Wang VS System Control Unit are excluded from this maintenance service contract.